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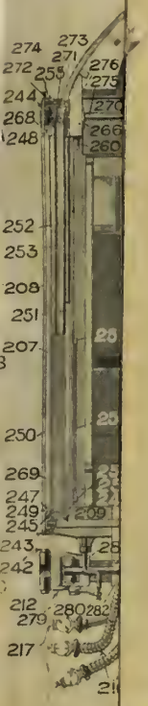
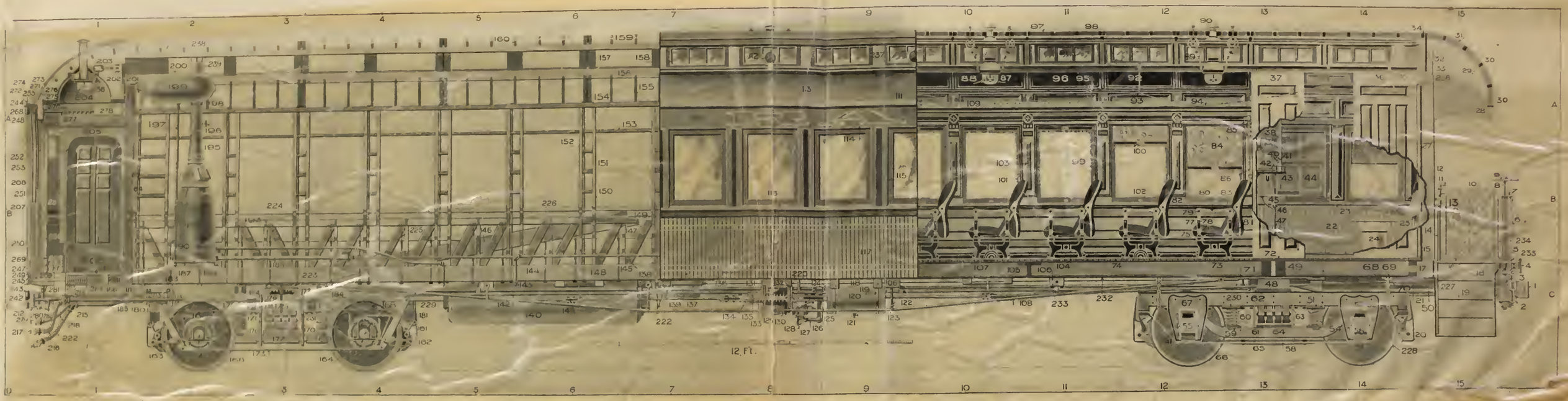


1 Janney
2 Safety
3 Brake
4 Buhou
5 Platfo
6 Platfo
7 Platfo
8 Brake
9 Brake
10 Platfo
11 Gate
12 Bell
13 Platfo
14 Body
15 Thres
16 Platf
17 End
18 Step
19 (Tre
20 Safet
21 Brak
2 Wait
23 Wait
24 Clos
25 Urin
26 Urin
27 Corr
28 Plat
29 Plat
30 Plat
31 Plat
32 End
33 Dec
34 End
35 Car
36 Dec

ANATOMY OF A PASSENGER CAR.



Reference List of Parts Indicated by Numbers on Diagram.

1 Janney Coupler 16C
2 Safety Chain 16D
3 Brake Chain 16C
4 Buhoup Buffer 16C
5 Platform Railing 16C
6 Platform Railing Chain 16C
7 Platform Rails 16B
8 Brake Shaft 16C
9 Brake Wheel 16B
10 Platform Gate 13B
11 Gate Lock Handle 14B
12 Bell Cord Coupling 15B
13 Platform Gate Hinge 13A
14 Body Hand Rail 15C
15 Threshold Plate 13C
16 Platform 13
17 End Sill 13C
18 Step Riser 16C
19 (Tread Board) Step 16D
20 Safety Strap Brake Safety Strap 15D
21 Brake Chain Connecting Rod 15D
22 Wainscot Panel 13C
23 Wainscot Panel Rail 14C
24 Closet Hopper 15C
25 Urinal Pipe 15C
26 Urinal 15C
27 Corner Post 13B
28 Platform Hood Bow 16B
29 Platform Hood Cutlines 16A
30 Platform Roof Platform Hood 16A
31 Platform Hood Ceiling 15A
32 End Plate 15A
33 Deck End Sill 15A
34 End Ceiling 15A
35 Car Signal Valve 15A
36 Deck Sash Opener 15A
37 Partition 14A
38 Water Cooler 14B
39 Cut off Valve, Pintsch System 14B
40 Water Cooler Faucet 14B
41 Tumbler 14B
42 Tumbler Holder 14B
43 Water Cooler Support 14B
44 Window Blind 14B
45 Basin Water Bowl 14C
46 Basin Coupling 14C
47 Washbowl Pipe 14C
48 Side Bearing 14C
49 Body Bolster 14C
50 Main Train Pipe 15D
51 Equalizer Spring Cap 14D
52 Pedestal Jaw 14D
53 Pedestal Horn 15D
54 Journal Box Cover Spring 14D
55 Journal Box Lid 14D
56 Axle Box 14D
57 Pedestal Jaw Brace 14D
58 Pedestal Tie Bar 14D
59 Equalizer Spring Seat 13D
60 Equalizer Spring 13D
61 Sand Plank Spring Plank 13D
62 Truck Side Frame 13D
63 Spring Band 14D
64 Equalizer 14D
65 Car Truck 14D
66 Wheel Flange 13D
67 Pedestal 14D
68 Check Chain 15C
69 Check Chain Eye 15C
70 Check Chain Hook 15C
71 Truss Rod Anchor Iron 13C
72 Flooring 14C
73 Seat Leg 13C
74 Foot Rest 12C
75 Seat Partition 13C
76 Cushion Car Seat 13C
77 Seat End 13C
78 Seat Lock 13C
79 Seat Arm 13C
80 Seat Arm Plate 13B
81 Seat Back Band 13C
82 Seat Back 13C
83 Inside Window Sill 13B
84 Shade 13B
85 Conductor's Valve 13B
86 Discharge Pipe 13B
87 Globe 11A
88 Gas Burner 11A
89 Lamp Arms 11A
90 Lamp Vent 13A
91 Clearstory 11A
92 Bell Cord Hanger 12A
93 Bell Cord Hanger Ring 12A
94 Bell Cord 13A
95 Car Moulding 12A
96 Ceiling 11A
97 Roof Boards 11A
98 Roof 12A
99 Sash 12B
100 Adjustable Shade Holder 12B
101 Window Lock 11B
102 Sash Lift 12B
103 Match Striker 11B
104 Steam Pipe Cover 11C
105 Floor Timber Distance Block 11C
106 Cross-tie Timber 11C
107 Side Sill 11C
108 Truss Rod 11D
109 Basket Rack 11B
110 Basket Rack Netting 10B
111 Basket Rack Rod 10A
112 Torpedo Ventilator 8A
113 Lower Deck 9A
114 Window Lintel 9B
115 Window Panel 10B
116 Outside Window Sill 8B
117 Outside Panel 9C
118 Auxiliary Reservoir Beams 9C
119 Auxiliary Reservoir Bands 9C
120 Auxiliary Reservoir 9C
121 Auxiliary Reservoir Drain Cock 9D
122 Body Truss Rod Bearing Strut 10D
123 Truss Rod Bearing 10D
124 Auxiliary Reservoir Nipple 9C
125 Cylinder Lever 9D
126 Triple Valve Branch Pipe 9D
127 Drain Cup 9D
128 Triple Valve 9D
129 Turnbuckle 8D
130 Bleeding Valve 9D
131 Brake Cylinder 8C
132 Piston Packing Leather 9C
133 Release Spring 8D
134 Cross Head 8D
135 Back Cylinder Head 8D
136 Gas Pipe from Governor 8C
137 Pintsch Gas Governor 8C
138 Pintsch Gas Gauge 7C
139 Gas Pipe to Governor 8D
140 Pintsch Compressed Gas Tank 6D
141 Floating Lever (Air Brake) 6D
142 Train Signal Pipe 6D
143 Train Brake Pipe 6C
144 Body Brace Straining Rods 6C
145 Compression Beam Brace 7C
146 Body Brace 6C
147 Panel Rail 7C
148 Steam Heating Pipe 7C
149 Compression Beam 7C
150 Window Post 7B
151 Window Panel Furring 7B
152 Sill and Plate Rail 6B
153 Upper Belt Rail 7B
154 Plate 7A
155 Main Carline 7A
156 Deck Sill 7A
157 Deck Post 7A
158 Deck Sash 7A
159 Deck Plate 7A
160 Upper Deck Carline 6A
161 Brake Block 5D
162 Brake Beam 5D
163 Brake Beam King Post 2D
164 Car Wheel 1D
165 Axle Safety Bearing 3D
166 Back Face Plate 3D
167 Axle 4D
168 Axle Safety Bearing Thimbles 5D
169 Axle Safety Bearing 4D
170 Spring Plank Hanger 1D
171 Bolster Springs 3D
172 Lower Spring Hanger Pivot 3D
173 Lower Brake Rod 3D
174 Bolster Spring Cap 3D
175 Truck Bolster 3D
176 Centre Pin 3C
177 Truck Centre Plate 4C
178 Safety Beams 4D
179 Brake Rod 3D
180 Brake Lever 2D
181 End Piece of Truck Frame 5D
182 Combination Side Sprin 2C
183 Side Stem 2C
184 Twin Body Bolster 3C
185 Shank End of Drawbar 2D
Draft Timbers 2C
187 Bottom Stove Plate 2C
Journal Box Jaws 3C
189 Ash Pit Door 3C
190 Ash Pit Door Handle 2C
191 Ash Pit (Baker Heater) 2C
192 Baker Heater 3C
193 Lower Belt Rail 3C
194 Baker Car Heater Coal Hopper 2B
195 Stove Pipe 3B
196 Stove Pipe Damper 3B
197 Circulating Pipes 2B
198 Circulating Drum Water Gauges 3A
199 Circulating Drum 2A
200 Safety Vent for Baker Heater 2A
201 Filling Funnel for Baker Heater 2A
202 Vestibule Equalizer 2A
203 Vestibule Equalizer Chain 2A
204 Vestibule Lamp 1A
205 Vestibule 1B
206 Vestibule Doors 1C
207 Curtain 1B
208 Vestibule Face Plate 1B
209 Platform End Sill 1C
210 Platform Plank 2C
211 Platform Short Sills 2C
212 3 Stem Car Coupler 1D
213 Coupling Valve (Air Brake) 1C
214 Coupling Valve Handle 1C
215 Angle Fitting 1D
216 Armored Air Brake Hose 1D
217 Coupler 1D
218 Steam Hose 1D
219 Letter Board 9D
220 Air Brake Piston 9C
221 Air Brake Cylinder 4D
Signal Hose 7D
223 Body Corner Plate 4C
224 Body Counter Brace 3B
225 Brace Straining Rod 5C
226 Brace 6B
227 Brake Shaft Chain 15C
228 Brake Shoe 15D
229 Dead Lever 5D
230 Equalizer Spring Cap 13D
231 Truck Bolster-Flitch Plates 4D
232 Deadening Flooring 12D
233 Intermediate Cross-tie Timber 11D
234 Platform Railing Post 16C
235 Base Washer for Platform Railing Post 16C
236 Door Lintel 15A
237 Clearstory Post 10A
238 Stove Pipe Cap 3A
239 Stove Pipe 3A
240 Axle Journal 3D
241 Journal Box Cover Bolt 1D
242 Knuckle Pin 1C
243 Vestibule Buffer Plate 1C

Parts of Janney-Buhoup Vestibule and Coupler.

244 Arch Plate 1A
245 Buffer Stem 1C
246 Foot Plate Housing 1C
247 Foot Plate 1C
248 Upper Spanner Bar 1B
249 Lower Spanner Bar 1C
250 Lamp 1C
251 Curtain Plate Lower 1B
252 Curtain Roll 1B
253 Curtain 1B
254 Post Plate 1C
255 Arch Plate Cap 1A
256 Dome 1A
257 Upper Holder for End Gate 1B
258 Lower Holder for End Gate 1C
259 End Gate 1C
260 Bell Cord Guide 1B
261 Strap Hinge 1C
262 Butt Hinge 1B
263 Door Bolt Keeper 2B
264 Door Bolt 2B
265 Door Latch Keeper 2C
266 Patent Plate 1A
267 Door Latch 2B
268 Spanner Bar Bolt 1A
269 Curtain Spring 1C
270 Piston Stem Spring 1A
271 Accordeon Hood 1A
272 Arch Plate Band 1A
273 Shield 1A
274 Arch Plate Cap Bolt 1A
275 Piston Stem 1A
276 Piston Stem Guide 1A
277 Piston Stem Washer 1B
278 Piston Stem Bracket 2A
279 Catch Lever 1D
280 Uncoupling Lever Chain 1D
281 Uncoupling Lever 1C
282 Stirrup 1D
283 Side Stem Bracket 2C
284 Buffer Spring 1C
285 Buffer Stem Bracket 2C

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LI

Link jaw
Knuckle
Knuckle
Knuckle
Guard A
Locking
Drawbar
Knuckle
Uncoupli
Uncoupli
Dead bl
Buffer bl
Brake h
Brake h
Hose cla
Brake h
Corner p
Push pol
Uncoupli
Uncoupli
Uncoupli
Brake sh
Brake sh
Brake sh
Ladder s
Ladder r
End post
Keeper (
Clevis (J
Clevis pi
Brake c
End post
Brake c
Center s
Center s
Drawbar
Drawbar
Spring p
Spring p
Followe
Draft s
End sill.
Angle c
Angle c
Truss-ro
Corner
Side sill
Body co
Interme
End sill
Drawba
Drawba
Drawba
Draft ti
Draft ti
Draft ti
Body ce
End bel
End bel
Brake s
Brake s
Brake p
Brake
Upper
Brake
Lower
Roof g
Purlin
Plate.
Upper
Inside
Inside
End pl
Truss-r
Brake
Body
Body
King
Body
Body
Body
Body
Body
Body
Belt r
Back
Packin
Brace.
Brake
Brake
Sill a
Cylin
Cylin
Cylin
Push
Brake
Chica
Rabb
Post
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Auxi
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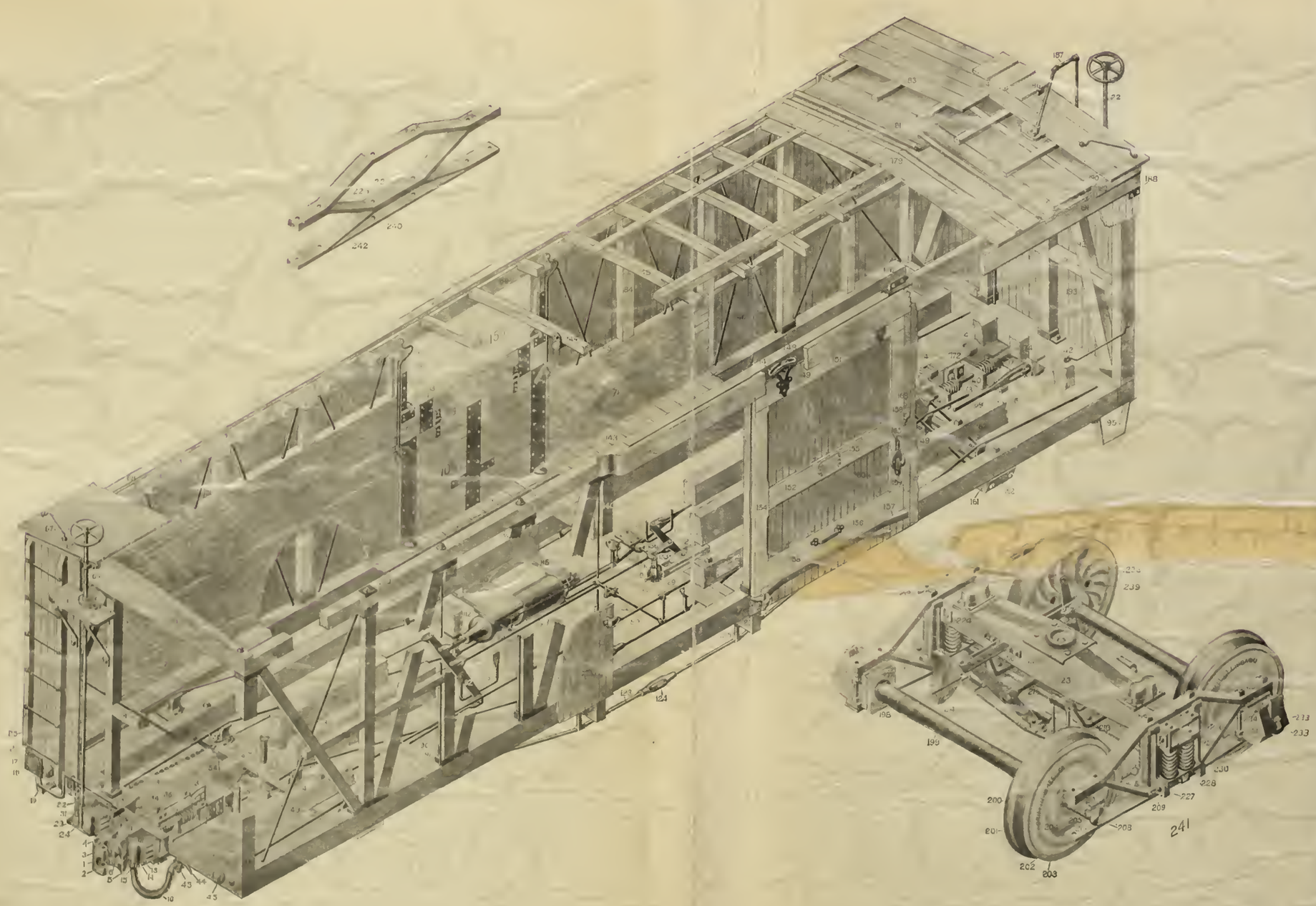
ANATOMY OF A FREIGHT CAR

(No. 1 BOX CAR)

LIST OF PARTS.

1 Link jaw of knuckle (Janney Coupler).
2 Knuckle link pin hole (Janney Coupler).
3 Knuckle (Janney Coupler).
4 Knuckle pin (Janney Coupler).
5 Guard Arm (Janney Coupler).
6 Locking pin for coupler (Janney Coupler).
7 Drawbar safety lug (Janney Coupler).
8 Knuckle tail (Janney Coupler).
9 Uncoupling lever chain (Janney Coupler).
10 Uncoupling lever (Janney Coupler).
11 Dead block.
12 Buffer block
13 Brake hose coupling.
14 Brake hose coupling case.
15 Hose clamp.
16 Brake hose.
17 Corner plate.
18 Push pole corner plate pocket.
19 Uncoupling lever handle.
20 Uncoupling lever bracket.
21 Uncoupling lever shaft.
22 Brake shaft.
23 Brake shaft step.
24 Brake shaft drum.
25 Ladder side rail.
26 Ladder round.
27 End post pocket
28 Keeper (Janney Coupler).
29 Clevis (Janney Coupler).
30 Clevis pin (Janney Coupler)
31 Brake chain clamp.
32 End post.
33 Brake chain.
34 Center sill tenon.
35 Center sill.
36 Drawbar guide.
37 Drawbar guide bolt.
38 Spring pocket or yoke.
39 Spring pocket bolt.
40 Follower plate.
41 Draft spring
42 End sill.
43 Angle cock
44 Angle cock handle.
45 Truss-rod nut
46 Corner post.
47 Side sill.
48 Body counterbrace rod
49 Intermediate sill.
50 End sill and plate tie rod.
51 Drawbar stop block.
52 Drawbar stop lug
53 Drawbar stop.
54 Draft timber lock plate
55 Draft timber.
56 Draft timber tie plate.
57 Body center plate.
58 End belt rail tie rod.
59 End belt rail
60 Brake step bracket
61 Brake step
62 Brake pawl
63 Brake ratchet wheel.
64 Upper brake shaft bearing.
65 Brake wheel.
66 Lower brake shaft bearing
67 Roof grab iron.
68 Purlin plate.
69 Plate
70 Upper belt rail.
71 Inside lining.
72 Inside lining cleaning opening.
73 End plate
74 Truss rod saddle.
75 Brake chain connecting rod
76 Body bolster tension bar
77 Body bolster compression bar.
78 King bolt.
79 Body bolster spacing block.
80 Body bolster
81 Body counterbrace.
82 Body side bearing.
83 Body post pocket
84 Body post.
85 Belt rail.
86 Back stop timber.
87 Packing block
88 Brace.
89 Brake pipe
90 Brake connecting rod
91 Sill and plate rod
92 Cylinder lever
93 Cylinder lever support.
94 Cylinder lever tie rod
95 Push rod
96 Brake cylinder head
97 Chicago grain door rod.
98 Rabbet for Chicago grain door
99 Post angle iron for Chicago grain door
100 Chicago grain door catch.
101 Chicago grain door catch plate.
102 Chicago grain door flap.
103 Chicago grain door flap plate.
104 Double grain door hinge.
105 Chicago grain door
106 Chicago grain door arm.
107 Chicago grain door arm ring
108 Chicago grain door stop.
109 Counterbrace rod plate washer.
110 Brake cylinder block
111 Brake cylinder plate
112 Brake cylinder flange.
113 Brake cylinder
114 Auxiliary reservoir.
115 Auxiliary reservoir beam.
116 McKee brake slack adjuster air pipe
117 Bleeding valve.
118 Drain cup.
119 Triple valve.
120 Triple valve branch pipe.
121 Brake cut-out cock.
122 Dunham closed car door stop.



LIST OF PARTS.

123 Body truss rod.
124 Turnbuckle.
125 King post.
126 Cross frame tie timber.
127 "Security" bracket guide.
128 Defect card.
129 McKee brake slack adjuster ratchet wheel.
130 McKee brake slack adjuster ratchet lever
131 McKee brake slack adjuster pawl.
132 McKee brake slack adjuster fulcrum block.
133 McKee brake slack adjuster fulcrum guide.
134 McKee brake slack adjuster take-up rod.
135 McKee brake slack adjuster take-up cylinder.
136 McKee brake slack adjuster push rod.
137 Floating lever.
138 Floating lever brake rod.
139 Floating lever guide.
140 Door post.
141 Sill and plate tie rod washer.
142 Door case top rail.
143 Floor
144 Chicago grain door carline block
145 Carline.
146 Body post brace rod
147 Dunham car door hanger.
148 Dunham car door sheave or wheel.
149 Dunham car door track.
150 Doorway.
151 Upper door rail
152 Middle door rail.
153 Lower door rail.
154 Door stile
155 Card rack.
156 Door pull.
157 Dunham double door wedge.
158 Dunham open door stop.
159 Dunham door lock
160 Door panelling.
161 Body bolster.
162 Body bolster end pocket casting
163 Body bolster truss rods.
164 Body bolster filleh plates.
165 Door hasp.
166 Dunham overhung airlight car door.
167 Section of body bolster.
168 Body bolster truss and saddle straps.
169 Draft rod (American draft and buffing apparatus).
170 Draft rod loop (American draft and buffing apparatus.
171 Draft bar (American draft and buffing apparatus.
172 Draft spring stop (American draft and buffing apparatus).
173 Drawbar bolt.
174 Drawbar shank.
175 Drawbar carry iron.
176 Sill joint bolt.
177 Ridge pole.
178 Lining stud.
179 Inside roof. (Drake and Wiers roof).
180 Subrafter or carline (Drake and Wiers roof).
181 Roof lining felt. (Drake and Wiers roof).
182 Longitudinal roof rib. (Drake and Wiers roof).
183 Roof boards. (Drake and Wiers roof).
184 Roof ridge. (Drake and Wiers roof).
185 Roof running board (Drake and Wiers roof).
186 Roof running board cleat. (Drake and Wiers roof
187 Roof hand rail.
188 Upper corner plate
189 Eaves fascia board
190 Fascia spacing block
191 Fascia
192 [illegible]
193 Outside sheathing
194 Grab iron.
195 Sill step.
196 Dust guard.
197 Dust guard bearing.
198 Wheel seat.
199 Axle.
200 Wheel flange.
201 Wheel tread.
202 Wheel rim.
203 Griffin cast iron car wheel.
204 Wheel hub.
205 Journal.
206 Journal bearing
207 Journal bearing wedge.
208 Axle collar.
209 Column (truck).
210 Brake hanger bracket.
211 Brake hanger.
212 Brake beam.
213 Brake lever fulcrum.
214 Dead lever.
215 Brake lever coupling bar.
216 Dead lever guide
217 Brake shoe.
218 Brake head.
219 Column bolts.
220 King's flexible side bearing cap.
221 King's flexible side bearing base.
222 Schuen pressed steel truck center plate.
223 Schuen pressed steel rigid truck bolster.
224 Truck bolster guide block.
225 Top arch bar.
226 Bottom arch bar.
227 Schuen pressed steel spring plank
228 Bolster spring seat.
229 Bolster spring cap.
230 Bolster spring.
231 Journal box.
232 Morris journal box lid
233 Morris journal box lid spring.
234 Journal box cover bolt.
235 Journal box bolt
236 Brake lever.
237 Brake lever guide.
238 Wheel bracket.
239 Wheel core hole
240 Tie bar.
241 Diamond Truck
242 Auxiliary arch bar.
243 Brake-beam wheel guard

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